

Notice of Allowability

Application No.

10/076,557

Examiner

PHUOC H DOAN

Applicant(s)

MIZUNO ET AL.

Art Unit

2687

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09/29/04.
2. ☒ The allowed claim(s) is/are 1-2, 5-9, and 12- 13.
3. ☒ The drawings filed on 19 February 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Allowable Subject Matter

1. Claims **1-2, 5-9, and 12-13** are allowed.
2. The following is an examiner's statement of reasons for allowance:

Claims **1-2, 5-9, and 12-13** are allowed as stated in the applicant's amendment in page 13 on dated of September 29, 2004.

The prior art of record do not disclose or suggest, a radio communication system comprising a plurality of radio stations, wherein each said radio station ' manages at least one radio channel for packet radio communication, wherein each said radio station communicates with another radio station either directly or through at least one other radio station, wherein each said radio station communicates with an adjacent radio station in one of centralized control access phase and distributed control access phase for each radio channel, whereby, in the centralized control access phase, each radio station operates adaptively either as a master station which controls transmission right and transmits a signal according to control of the own radio station or as a slave station which transmits a signal under control of a master station, for each channel, wherein said centralized control access phase and said distributed control access phase are switched on time divisional basis for each radio station and for each radio channel wherein when a radio-station operates in a radio channel as a master station, said radio station transmits a beacon packet including an address of said master station, an address of all the slave stations belong to said master station

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and time until each slave station should transmit a request packet to said master station response to said beacon packet, for indicating beginning of a centralized control access phase, and each slave station, upon receipt of said beacon packet, transmits said request packet to said master station at a time instructed by said beacon packet, wherein a pair of radio stations operating under relation of a master station and a slave station finish the centralized control access phase and switch to the distributed control access phase, said master station transmits a contention free end packet indicating an end of the centralized control access phase, said contention free end packet includes an end time of said centralized control access phase, a time until a next beacon packet is transmitted, and an instruction whether or not a slave station receiving said contention free end packet should relay said contention free end packet to another slave station, and a slave station which receives said contention free end packet transmits the other contention free end packet to said master station at a time indicated by said contention free end packet sent by the master station, so that the centralized control access phase switches to the distributed control access phase, as substantially described in independent claims **7, and 8**, These limitations, in combination with other remaining limitations of claims **7, and 8** are not taught nor suggested by the prior art of record.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUOC H DOAN whose telephone number is 703-305-6311. The examiner can normally be reached on 9:30 AM - 6:30 PM.

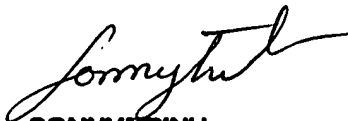
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, LESTER G KINCAID can be reached on 703-308-7745. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phuoc Doan

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01/06/05



SONNY TRINH
PRIMARY EXAMINER
1-7-05